CONTENTS

No. 1, FEBRUARY 2005

KARL L. EVANS, PHILIP H. WARREN & KEVIN J. GASTON. Species-energy relationships at the macroecological scale: a review of the mechanisms 1

R. G. RATCLIFFE & Y. SHACHAR-HILL. Revealing metabolic phenotypes in plants: inputs from NMR analysis 27

YVES FRENOT, STEVEN L. CHOWN, JENNIE WHINAM, PATRICIA M. SELKIRK, PETER CONVEY, MARY SKOTNICKI & DANA M. BERGSTROM. Biological invasions in the Antarctic: extent, impacts and implications . . 45

JOHN M. C. HUTCHINSON. Is more choice always desirable? Evidence and arguments from leks, food selection, and environmental enrichment 73

MATTHEW R. E. SYMONDS. Phylogeny and life histories of the 'Insectivora': controversies and consequences 93

R. J. M. (IAIN) WILSON. Parasite plastids: approaching the endgame 129

A. J. HULBERT, N. TURNER, L. H. STORLIEN & P. L. ELSE. Dietary fats and membrane function: implications for metabolism and disease 155

No. 2, MAY 2005

JARI VALKAMA, ERKKI KORPIMÄKI, BEATRIZ ARROYO, PEDRO BEJA, VINCENT BRETAGNOLLE, ELISABETH BRO, ROBERT KENWARD, SANTI MAÑOSA, STEPHEN M. REDPATH, SIMON THIRGOOD & JAVIER VIÑUELA. Birds of prey as limiting factors of gamebird populations in Europe: a review 171

DIANA E. BOWLER & TIM G. BENTON. Causes and consequences of animal dispersal strategies: relating individual behaviour to spatial dynamics 205

JAMES A. SHAPIRO & RICHARD VON STERNBERG. Why repetitive DNA is essential to genome function . . . 227

MIRIAM BRANDT, SUSANNE FOITZIK, BIRGIT FISCHER-BLASS & JÜRGEN HEINZE. The coevolutionary dynamics of obligate ant social parasite systems – between prudence and antagonism 251

MANUEL HERNÁNDEZ FERNÁNDEZ & ELISABETH S. VRBA. A complete estimate of the phylogenetic relationships in Ruminantia: a dated species-level supertree of the extant ruminants 269

ZERINA JOHANSON & MOYA M. SMITH. Origin and evolution of gnathostome dentitions: a question of teeth and pharyngeal denticles in placoderms 303

No. 3, AUGUST 2005

MARY E. A. WHITEHOUSE & YAEL LUBIN. The functions of societies and the evolution of group living: spider societies as a test case 347

BERNHARD A. HUBER. Sexual selection research on spiders: progress and biases 363

ALISTAIR S. GLEN & CHRIS R. DICKMAN. Complex interactions among mammalian carnivores in Australia, and their implications for wildlife management 387

JEAN-FRANÇOIS PONGE. Emergent properties form organisms to ecosystems: towards a realistic approach . 403

JABOURY GHAZOUL. Pollen and seed dispersal among dispersed plants 413

SAMANTHA A. PRICE, OLAF R. P. BININDA-EMONDS & JOHN L. GITTLEMAN. A complete phylogeny of the whales, dolphins and even-toed hoofed mammals (Cetartiodactyla) 445

C. Marc Luetjens, Gerhard F. Weinbauer & Joachim Wistuba. Primate spermatogenesis: new insights into comparative testicular organisation, spermatogenic efficiency and endocrine control 475
Ian D. Hodkinson. Terrestrial insects along elevation gradients: species and community responses to altitude 489

No. 4, NOVEMBER 2005

Gerald Mayr. The Paleogene fossil record of birds in Europe 515
Alexander M. Kerr. Molecular and morphological supertree of stony corals (Anthozoa: Scleractinia) using matrix representation parsimony 543
Bob B. M. Wong & Ulrika Candolin. How is female mate choice affected by male competition? 559
Martin Stevens. The role of eyespots as anti-predator mechanisms, principally demonstrated in the Lepidoptera 573
Peter A. Parsons. Environments and evolution: interactions between stress, resource inadequacy and energetic efficiency 589
Douglas S. Glazier. Beyond the '3/4-power law': variation in the intra- and interspecific scaling of metabolic rate in animals 611
Mathieu Denoël, Pierre Joly & Howard H. Whiteman. Evolutionary ecology of facultative paedomorphosis in newts and salamanders 663
Stanley Meizel. Author's erratum 673